



PAUL R. LEPAGE
GOVERNOR

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PATRICIA W. AHO
COMMISSIONER

**Irving Oil Terminals Inc.
Waldo County
Searsport, Maine
A-413-71-P-M (SM)**

**Departmental
Findings of Fact and Order
Air Emission License
Amendment #2**

FINDINGS OF FACT

After review of the air emissions license amendment application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 Maine Revised Statutes Annotated (M.R.S.A.), §344 and §590, the Maine Department of Environmental Protection (the Department) finds the following facts:

I. REGISTRATION

A. Introduction

Irving Oil Terminals Inc. (the Terminal) was issued Air Emission License A-413-71-M-R/A on November 30, 2011, permitting the operation of emission sources associated with their bulk petroleum storage and distribution facility. The license was subsequently amended on December 13, 2013 (A-413-71-O-M).

The Terminal has requested a minor revision to their license in order to remove a #2 oil-fired boiler from the license, and to include in the license one propane furnace and four #2 oil-fired space heaters. All five of the units to be added are identified as "insignificant" per 06-096 CMR 115 licensing thresholds. In order for the license to be complete and accurate, the Terminal has requested their addition.

The equipment addressed in this license amendment is located at the Irving Oil Terminals Inc. Searsport Marine Terminal located at 52 Station Avenue, Searsport, Maine.

B. Emission Equipment

The following equipment is addressed in this air emission license amendment:

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826
RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769
(207) 764-0477 FAX: (207) 760-3143

Fuel Burning Units

<u>Equipment</u>	<u>Maximum Capacity (MMBtu/hr)</u>	<u>Maximum Firing Rate (gal/hr)</u>	<u>Fuel Type, % sulfur</u>	<u>Install. Date</u>	<u>Stack #</u>
Boiler #2*	1.68	12.0	#2 fuel oil, 0.5%	2000	2
HTP Elite Boiler	0.3	n.a.	Propane	12/2013	n.a.
(4) Reflecto-Ray Systems Heaters	< 1.0 each		#2 fuel oil		

* Removed from the facility and from the license

C. Application Classification

This amendment will not increase licensed emissions of any pollutant. Therefore, this modification is determined to be a minor revision and has been processed as such.

II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license, the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in *Definitions Regulation*, 06-096 CMR 100 (as amended). Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

The removal of Boiler #2 from the license requires no further BPT findings.

The addition of five fuel burning units, each below the threshold for inclusion in the license per Appendix B (B)(2) of 06-096 CMR 115, is for completeness purposes only. The Terminal has requested the addition of these insignificant sources to the license to provide documentation that the heaters have been assessed and accounted for by the Terminal, and to indicate the rationale for the presence of #2 fuel oil on the property.

B. HTP Elite Boiler

1. The Terminal operates the HTP Elite Boiler which is rated at 0.3 MMBtu/hour and fires propane. The boiler was installed in 2013 and exhausts through its own stack.
2. Due to the size, the boiler is not subject to the New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*, for units greater than 10 MMBtu/hr manufactured after June 9, 1989.

3. This boiler is considered a gas-fired boiler as defined in 40 CFR Part 63, Subpart JJJJJ, *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources*, and as such is not subject to this subpart. [40 CFR §63.11195 (e)]
4. Visible emissions from the boiler shall not exceed 10% opacity on a six-minute block average, except for no more than one six-minute block average in a three-hour period. [06-096 CMR 101 (2)(B)(1)(c)]

C. Reflecto-Ray Systems Heaters (4)

1. The Terminal operates four Reflecto-Ray Systems Heaters which are each rated at less than 1.0 MMBtu/hour and fire #2 fuel oil.
2. Prior to July 1, 2016, or by the date otherwise stated in 38 MRSA §603-A(2)(A)(3), the #2 fuel oil fired at the facility shall be ASTM D396 compliant #2 fuel oil (maximum sulfur content of 0.5% by weight). Per 38 MRSA §603-A(2)(A)(3), beginning July 1, 2016, or on the date specified in the statute, the facility shall fire #2 fuel oil with a maximum sulfur content limit of 0.005% by weight (50 ppm); and beginning January 1, 2018, or on the date specified in the statute, the facility shall fire #2 fuel oil with a maximum sulfur content limit of 0.0015% by weight (15 ppm). The specific dates contained in this paragraph reflect the current dates in the statute as of the effective date of this license amendment; however, if the statute is revised, the facility shall comply with the revised dates upon promulgation of the statute revision.
3. These units burn fuel to provide space heating and are not boilers; thus they are not subject to either 40 CFR Part 60, Subpart Dc or 40 CFR Part 63, Subpart JJJJJ.

D. Annual Emissions

The Terminal shall be restricted to the following annual emissions, based on a 12-month rolling total and the following limits:

- annual facility throughput of 220,000,000 gallons of gasoline and ethanol, and
- a facility-wide emission limit of 49.9 tons of VOCs.

Total Licensed Annual Emissions for the Facility

Tons/year

(used to calculate the annual license fee)

	<u>PM</u>	<u>PM₁₀</u>	<u>SO₂</u>	<u>NO_x</u>	<u>CO</u>	<u>VOC</u>	<u>Total HAP</u>
Emergency Generator	0.1	0.1	0.1	0.4	0.1	--	--
Tanks	--	--	--	--	--	35.7	9.9
Vapor Combustion Unit	--	--	--	5.7	14.2	14.2	--
Total TPY	0.1	0.1	0.1	6.1	14.3	49.9	9.9

III. AMBIENT AIR QUALITY ANALYSIS

The level of ambient air quality impact modeling required for a minor source is determined by the Department on a case-by case basis. In accordance with 06-096 CMR 115, an ambient air quality impact analysis is not required for a minor source if the total emissions of any pollutant released do not exceed the following levels and there are no extenuating circumstances:

Pollutant	Tons/Year
PM ₁₀	25
SO ₂	50
NO _x	50
CO	250

The total facility licensed emissions are below the emission levels contained in the table above and there are no extenuating circumstances; therefore, an ambient air quality impact analysis is not required as part of this license.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards, and
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-413-71-P-M subject to the conditions found in Air Emission License A-413-71-M-R/A and in amendment A-413-71-O-M, and the following conditions.

Severability. The invalidity or unenforceability of any provision of this License or part thereof shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

SPECIFIC CONDITIONS

Specific Condition (16), specifying requirements and restrictions pertaining to Boiler #2, is hereby removed from Air Emission License A-413-71-M-R/A.

The following Specific Conditions shall be in addition to those conditions contained in Air Emission License A-413-71-M-R/A.

(29) **HTP Elite Boiler**

Visible emissions from the HTP Elite Boiler shall not exceed 10% opacity on a six-minute block average, except for no more than one six-minute block average in a three-hour period. [06-096 CMR 101 (2)(B)(1)(c)]

(30) **Distillate Fuel**

Prior to July 1, 2016, or by the date otherwise stated in 38 MRSA §603-A(2)(A)(3), the #2 fuel oil fired at the facility shall be ASTM D396 compliant distillate fuel (maximum sulfur content of 0.5% by weight). Per 38 MRSA §603-A(2)(A)(3), beginning July 1, 2016, or on the date specified in the statute, the facility shall fire distillate fuel with a maximum sulfur content limit of 0.005% by weight (50 ppm); and beginning January 1, 2018, or on the date specified in the statute, the facility shall fire distillate fuel with a maximum sulfur content limit of 0.0015% by weight (15 ppm). The specific dates contained in this paragraph reflect the current dates in the statute as of the effective date of this license amendment; however, if the statute is revised, the facility shall comply with the revised dates upon promulgation of the statute revision.

DONE AND DATED IN AUGUSTA, MAINE THIS 11 DAY OF July, 2014.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Marc Allen Robert Corre for
PATRICIA W. AHO, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-413-71-M-R/A (SM).

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: February 11, 2014

Date of application acceptance: February 13, 2014

Date filed with the Board of Environmental Protection:

This Order prepared by Jane E. Gilbert, Bureau of Air Quality.

